

SEQUENCE LISTING

<110> JAWORSKI, DEBORAH DEE
PAYNE, DAVID J.
SLATER-RADOSTI, COURTNEY E.
YAN, KANG

<120> METHODS OF MODULATING ACTIVITY OF DXR

<130> GM50074

<140> TO BE ASSIGNED

<141> 2001-08-09

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<151> 2000-08-09

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 35 40 45
 Ile Lys Phe Arg Pro His Phe Ala Ala Leu Asp Asp Val Asn Ala Ala
 50 55 60
 Lys Ile Leu Arg Glu Lys Leu Ile Ala His His Ile Pro Thr Glu Val
 65 70 75 80
 Leu Ala Gly Arg Arg Ala Ile Cys Glu Leu Ala Ala His Pro Asp Ala
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 Asp Gln Ile Met Ala Ser Ile Val Gly Ala Ala Gly Leu Leu Pro Thr
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 130 135 140
 Gly Ser Lys Leu Leu Pro Val Asp Ser Glu His Asn Ala Ile Phe Gln
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 165 170 175
 Glu Leu Gly Val Ser Lys Ile Ile Leu Thr Gly Ser Gly Gly Pro Phe
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005080" 822555550

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Thr | Pro | Leu | Glu | Gln | Phe | Thr | Asn | Ile | Thr | Pro | Glu | Gln | Ala | 195 | 200 | 205 |
| Val | Ala | His | Pro | Asn | Trp | Ser | Met | Gly | Lys | Lys | Ile | Ser | Val | Asp | Ser | 210 | 215 | 220 |
| Ala | Thr | Met | Met | Asn | Lys | Gly | Leu | Glu | Tyr | Ile | Glu | Ala | Arg | Trp | Leu | 225 | 230 | 235 |
| Ala | Thr | Gly | Cys | Ala | Ala | Ala | Ala | Ala | Cys | Ala | Ala | Ala | Ala | Cys | Ala | 245 | 250 | 255 |
| Thr | Thr | Gly | Thr | Cys | Ala | Thr | Thr | Cys | Thr | Thr | Gly | Gly | Thr | Thr | Cys | 260 | 265 | 270 |
| Ala | Ala | Cys | Gly | Gly | Gly | Ala | Thr | Cys | Ala | Ala | Thr | Cys | Gly | Gly | Thr | 275 | 280 | 285 |
| Ala | Ala | Gly | Ala | Gly | Thr | Ala | Cys | Cys | Cys | Thr | Thr | Thr | Cys | Thr | Gly | 290 | 295 | 300 |
| Thr | Thr | Ala | Thr | Cys | Gly | Ala | Ala | Ala | Ala | Thr | Ala | Ala | Cys | Cys | Cys | 305 | 310 | 315 |
| Thr | Cys | Ala | Gly | Ala | Ala | Ala | Thr | Ala | Thr | Cys | Ala | Thr | Gly | Cys | Ala | 325 | 330 | 335 |
| Thr | Thr | Thr | Gly | Cys | Ala | Cys | Thr | Cys | Gly | Thr | Ala | Gly | Gly | Cys | Gly | 340 | 345 | 350 |
| Gly | Ala | Ala | Ala | Ala | Ala | Ala | Thr | Gly | Thr | Ala | Gly | Ala | Ala | Gly | Cys | 355 | 360 | 365 |
| Ala | Ala | Thr | Gly | Thr | Thr | Thr | Gly | Ala | Ala | Cys | Ala | Ala | Thr | Gly | Thr | 370 | 375 | 380 |
| Ala | Thr | Cys | Ala | Ala | Ala | Thr | Thr | Cys | Cys | Gly | Ala | Cys | Cys | Gly | Cys | 385 | 390 | 395 |
| Ala | Cys | Thr | Thr | Thr | Gly | Cys | Gly | Gly | Cys | Thr | Cys | Thr | Thr | Gly | Ala | 405 | 410 | 415 |
| Thr | Gly | Ala | Thr | Gly | Thr | Ala | Ala | Ala | Thr | Gly | Cys | Gly | Gly | Cys | Thr | 420 | 425 | 430 |
| Ala | Ala | Ala | Ala | Thr | Thr | Thr | Thr | Ala | Cys | Gly | Thr | Gly | Ala | Ala | Ala | 435 | 440 | 445 |
| Ala | Ala | Thr | Thr | Ala | Ala | Thr | Thr | Gly | Cys | Gly | Cys | Ala | Thr | Cys | Ala | 450 | 455 | 460 |
| Thr | Ala | Thr | Thr | Cys | Cys | Ala | Ala | Cys | Gly | Gly | Ala | Ala | Gly | Thr | Ala | 465 | 470 | 475 |
| Thr | Thr | Ala | Gly | Cys | Ala | Gly | Gly | Ala | Cys | Gly | Ala | Cys | Gly | Ala | Gly | 485 | 490 | 495 |
| Cys | Thr | Ala | Thr | Thr | Thr | Gly | Cys | Gly | Ala | Ala | Cys | Thr | Cys | Gly | Cys | 500 | 505 | 510 |

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| | | | |
|---|-----|-----|-----|
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| Gly Ala Thr Cys Ala Gly Ala Thr Ala Ala Thr Gly Gly Cys Gly Thr | 530 | 535 | 540 |
| Cys Gly Ala Thr Thr Gly Thr Thr Gly Gly Thr Gly Cys Ala Gly Cys | 545 | 550 | 555 |
| Ala Gly Gly Ala Thr Thr Gly Thr Thr Ala Cys Cys Gly Ala Cys Thr | 565 | 570 | 575 |
| Cys Thr Thr Thr Cys Ala Gly Cys Gly Gly Thr Thr Ala Ala Ala Gly | 580 | 585 | 590 |
| Cys Ala Gly Gly Thr Ala Ala Ala Cys Gly Gly Gly Thr Ala Thr Thr | 595 | 600 | 605 |
| Ala Cys Thr Gly Gly Cys Ala Ala Ala Thr Ala Ala Ala Gly Ala Ala | 610 | 615 | 620 |
| Thr Cys Ala Cys Thr Gly Gly Thr Ala Ala Cys Cys Thr Gly Cys Gly | 625 | 630 | 635 |
| Gly Ala Cys Ala Gly Cys Thr Thr Thr Thr Thr Ala Thr Thr Gly Ala | 645 | 650 | 655 |
| Thr Gly Cys Cys Gly Thr Ala Ala Ala Ala Ala Ala Cys Thr Ala Thr | 660 | 665 | 670 |
| Gly Gly Cys Thr Cys Gly Ala Ala Gly Cys Thr Thr Thr Thr Ala Cys | 675 | 680 | 685 |
| Cys Ala Gly Thr Ala Gly Ala Thr Ala Gly Thr Gly Ala Ala Cys Ala | 690 | 695 | 700 |
| Thr Ala Ala Thr Gly Cys Thr Ala Thr Cys Thr Thr Thr Cys Ala Ala | 705 | 710 | 715 |
| Thr Cys Ala Thr Thr Ala Cys Cys Gly Cys Cys Ala Gly Ala Ala Gly | 725 | 730 | 735 |
| Cys Ala Cys Ala Ala Gly Ala Ala Ala Ala Ala Ala Thr Cys Gly Gly | 740 | 745 | 750 |
| Thr Thr Thr Thr Thr Gly Cys Cys Cys Ala Cys Thr Thr Thr Cys Thr | 755 | 760 | 765 |
| Gly Ala Ala Thr Thr Ala Gly Gly Thr Gly Thr Ala Ala Gly Thr Ala | 770 | 775 | 780 |
| Ala Ala Ala Thr Thr Ala Thr Ala Cys Thr Cys Ala Cys Thr Gly Gly | 785 | 790 | 795 |
| Thr Thr Cys Thr Gly Gly Cys Gly Gly Ala Cys Cys Ala Thr Thr Cys | 805 | 810 | 815 |
| Cys Gly Thr Thr Ala Cys Ala Cys Gly Cys Cys Ala Cys Thr Thr Gly | 820 | 825 | 830 |

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|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Cys | Ala | Ala | Thr | Thr | Cys | Ala | Cys | Cys | Ala | Ala | Cys | Ala | Thr |
| 835 | | | 840 | | | 845 | | | | | | | | | |
| Ala | Ala | Cys | Ala | Cys | Cys | Ala | Gly | Ala | Ala | Cys | Ala | Ala | Gly | Cys | Gly |
| 850 | | | 855 | | | 860 | | | | | | | | | |
| Gly | Thr | Thr | Gly | Cys | Ala | Cys | Ala | Cys | Cys | Cys | Thr | Ala | Ala | Thr | Thr |
| 865 | | | 870 | | | 875 | | | 880 | | | | | | |
| Gly | Gly | Thr | Cys | Thr | Ala | Thr | Gly | Gly | Gly | Thr | Ala | Ala | Ala | Ala | Ala |
| 885 | | | 890 | | | 895 | | | | | | | | | |
| Ala | Ala | Thr | Thr | Thr | Cys | Thr | Gly | Thr | Cys | Gly | Ala | Thr | Thr | Cys | Ala |
| 900 | | | 905 | | | 910 | | | | | | | | | |
| Gly | Cys | Thr | Ala | Cys | Ala | Ala | Thr | Gly | Ala | Thr | Gly | Ala | Ala | Thr | Ala |
| 915 | | | 920 | | | 925 | | | | | | | | | |
| Ala | Gly | Gly | Gly | Cys | Thr | Thr | Gly | Gly | Ala | Ala | Thr | Ala | Cys | Ala | Thr |
| 930 | | | 935 | | | 940 | | | | | | | | | |
| Thr | Gly | Ala | Gly | Gly | Cys | Thr | Cys | Gly | Cys | Thr | Gly | Gly | Cys | Thr | Thr |
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| Thr | Thr | Cys | Ala | Ala | Thr | Gly | Cys | Ala | Ala | Gly | Thr | Gly | Cys | Gly | Gly |
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| Ala | Ala | Gly | Ala | Ala | Ala | Thr | Gly | Gly | Ala | Ala | Gly | Thr | Thr | Ala | Thr |
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| Thr | Ala | Thr | Thr | Cys | Ala | Thr | Cys | Cys | Ala | Cys | Ala | Ala | Thr | Cys | Ala |
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| Ala | Thr | Thr | Ala | Thr | Thr | Cys | Ala | Thr | Thr | Cys | Thr | Ala | Thr | Gly | Gly |
| 1010 | | | 1015 | | | 1020 | | | | | | | | | |
| Thr | Ala | Cys | Gly | Gly | Thr | Ala | Thr | Gly | Thr | Thr | Gly | Ala | Cys | Gly | Gly |
| 1025 | | | 1030 | | | 1035 | | | 1040 | | | | | | |
| Cys | Thr | Cys | Ala | Gly | Thr | Cys | Ala | Thr | Thr | Ala | Cys | Thr | Cys | Ala | Ala |
| 1045 | | | 1050 | | | 1055 | | | | | | | | | |
| Ala | Thr | Gly | Gly | Gly | Ala | Ala | Ala | Thr | Cys | Cys | Ala | Gly | Ala | Thr | Ala |
| 1060 | | | 1065 | | | 1070 | | | | | | | | | |
| Thr | Gly | Cys | Gly | Thr | Ala | Cys | Ala | Cys | Cys | Ala | Ala | Thr | Thr | Gly | Cys |
| 1075 | | | 1080 | | | 1085 | | | | | | | | | |
| Ala | Gly | Ala | Ala | Ala | Cys | Thr | Ala | Thr | Gly | Gly | Cys | Ala | Thr | Ala | Thr |
| 1090 | | | 1095 | | | 1100 | | | | | | | | | |
| Cys | Cys | Thr | Cys | Ala | Cys | Cys | Gly | Cys | Ala | Cys | Thr | Thr | Thr | Thr | Gly |
| 1105 | | | 1110 | | | 1115 | | | 1120 | | | | | | |
| Cys | Thr | Gly | Gly | Ala | Gly | Thr | Ala | Gly | Ala | Ala | Cys | Cys | Ala | Cys | Thr |
| 1125 | | | 1130 | | | 1135 | | | | | | | | | |
| Cys | Gly | Ala | Thr | Thr | Thr | Cys | Thr | Thr | Thr | Ala | Ala | Ala | Ala | Thr | Cys |
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Thr Thr Gly Ala Ala Cys Cys Thr Gly Ala Thr Thr Thr Thr Ala Ala
1170 1175 1180
Thr Cys Gly Cys Thr Ala Thr Cys Cys Ala Ala Ala Thr Thr Thr Ala
1185 1190 1195 1200
Ala Ala Ala Cys Thr Gly Gly Cys Thr Ala Thr Thr Gly Ala Thr Gly
1205 1210 1215
Cys Cys Thr Thr Thr Gly Cys Thr Gly Cys Gly Gly Gly Thr Cys Ala
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Ala Thr Ala Thr Gly Cys Gly Ala Cys Ala Ala Cys Ala Gly Cys Ala
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1380 1385 1390
Gly Cys Ala Cys Ala Ala Gly Cys Ala Ala Gly Ala Gly Ala Gly Ala
1395 1400 1405
Thr Thr Gly Cys Gly Ala Ala Ala Ala Cys Ala Cys Thr Ala Cys Thr
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Thr Ala Gly Ala Gly Ala Ala Phe Asn Ala Ser Ala Glu Glu Met Glu
1425 1430 1435 1440
Val Ile Ile His Pro Gln Ser Ile Ile His Ser Met Val Arg Tyr Val
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<210> 6

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<213> Haemophilus influenzae

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